M. A. R. 57 (Rule 116)
Measurement Book

No. B 498042

ial No. 3rd and Part Bill

me of Work Package 04. Includes 7 works From To

me of Contractor of nature of Agency Sri. B.B. Umesh, Contractor.

e of commencement of work

te	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	NAME of work: Package-04, includes 7 works, 1. Improvements to roads and drains in BEL layout, HMT layout, Rajivgandhi Nagar (NTI), Thindlu and Surrounding in ward No 09. 2. Improvements to Roads and Drains in Thindlu colony, Narasipura Layout, Kempegowdanagara and Surrounding area in ward No 9. 3. Improvements to Roads and Drains in Muthuraya Swamy Layout, Doddabomasandra, Nanjappa Layout, Chamundeshwari Layout in ward No 10. 4. Improvements to roads and drains at Amruthhalli main Road, Improvements to roads and Drains in Kuvempunagara, Singapura, Ramachandrapura and Surrounding areas in ward No 11, 5. Improvements to roads and drains						

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	at Amruthhalli main road, Kariyanna Layout and Surrounding areas in ward No 7, 6. Improvements to roads and drains at bhadrappa layout and balaji layout ward no 7, 6. Improvements to roads and drains at bhadrappa Layout and balaji layout and surrounding area in ward number 08, 7. Improvements to roads and drains in Kodigehalli Colony, Maruthinagara, BB Nagar and Surrounding area in ward no 08.					
	Estimate Cost: Rs - 570.00 Lakhs					
	Jobcode No: 007-19-000106, 008-19-000034, 008-19-000035, 009-19-000030, 010-19-000011, 011-19-000288					
	Head of Account: P3111, P3409.					

M. A. R. 57 (Rule 116)
Measurement Book

No. B 198043

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
f commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Name of Agency : Sri B.B Umesh, Contractor, # 383 Bettahalasur (P), Bangalore North taluk, 562157.						
Ref: BMP/EE/BTP/WO/110/2019-20, Dated 17.10.2019						
Date of Recording:- 20-03-2020						
				Qty	Rate	Amount:
Removing and resetting Footpath slab.						
Present qty as per E-Bill Page no 1 to 3						
				Sqm 1634.13	235.97 Rs	Rs 385605.66

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6 Qty	Contents 7 Rate	Reference to last Measurement Amount
2.	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed. the disposal earth to be leveled neatly after breaking of clods as per spec complete as per specifications Present qty as per E Bill page no 4 to 7.				Cum 1447.53	Rs 155.71	Rs 2255
3.	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specs including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Present qty as per E Bill Page no 8 to 9.				Cum 749.06	2261.50	1694006.26 Rs 1693999.00
	KSRRB. 500-4, Providing and applying primer coat from 7.5 to 9.8 kg to 12 kg per 10 sqm for surfaces of low and medium porosity. respectively over prepared						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498041

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Surface of granular base with Cut Back MC-70 or any other bitumen mixed work diluted at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set including cost of all material, labour, HOM & machineries complete as per specifications Do. Medium Porosity.						
	Present qty as per E bill page NO 10.		Sqm	2286.60	Rs 40.73	Rs 93133.01	93133.01
5.	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregate as per design mix formulae for base/binding course including loading of aggregate with JCB loader. Hot mixing of stone aggregate and bitumen in Hot mix plant, rolling by power roller to achieve desired density, but excluding cost of primer/tack						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498045

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
f commencement of work .....

Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Coat including lead, lift and cost of all materials labour HOM & machineries complete as per specifications Mortis Chs. using 40/60 TPH capacity HMP with mechanical paver Gr II. (Sommer -75mm) with 3.4% VG-30 bitumen						
Present qty as per E Bill page no 11.			Cum 114.33		Rs 6974.79	Rs 797426.00 797427.74
Tack coat. providing and applying tack coat using 80/100 grade bitumen (VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the cleaning prepared bituminous surface elsewhere with mechanical						

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	broom. Complete as per specifications. Present qty as per EBII Page no 12 to 13 Cum: 746.07				Rs 14.37	Rs 10730.12
7.	Providing and laying bituminous concrete 40mm thick with coir-200 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregate with bituminous binder at 5.4 to 5.6% of mix and filler laying with hydro static paver finisher with sensor control to the required grade level & alignment. Rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per morth specification no 500.9 complete in all respects as per specs Morth specs 30-45 mm compacted thickness (Wearing II) in the					

M. A. R. 57 (Rule 116)
Measurement Book

No. B

498046

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
f commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
6% bitumen 80/100 Present qty as per EBII Page no 14 to 15		Cum 298.68		Rs 10021.99		2993367.97 Rs 2993396.03
Providing and laying of hot applied thermoplastic compound 25 mm thick including reflectorizing glass beads at 250 gm per sqm. thickness of 25 mm is exclusive of surface applied glass beads as per IRC:35. the finished surface to be level, uniform from streaks and holes. complete as per specification. Present qty as per EBII Page no 16 to 17		Sqm 313.04		Rs 513.86		Rs 160858.73

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Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	
28)	Earthwork Excavation for foundation of building Culverts water supply Sanitary lines and electrical Conduits either in pits or in trenches 1.5m and above in width in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50mm after breaking of clods complete as per specifications						
	Present qty as per E bill page no 18.		Cum	373.79	Rs ~~345.89~~ 332.78	Rs	114933
29	Providing and laying in position RCC of design mix M20 with OPC Cement @ 320kg/m³ with 20mm and						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498047

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
f commencement of work .....

Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
down size graded granite metal Course aggregates @ 0.878 cum and Fine aggregate @ 0.459 cum. with Supply Plasticizer @ 3ltr Confirming to IS 9103. 999 reo from 1.2008. machine mixed. roof slabs, staircase, lintel, retaining walls retaining walls. Columns, piers, abutments, pillars, posts, struts, copings bed blocks, fillets etc. including cost of all materials labour. tools of machinery, curing complete as per specification.						
Present qty as per E Bill Page no 19-20.		Cum	119.87 117.22		Rs 7335.82	Rs 879351.82 859905.00

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
30	Providing and laying in position RCC of design mix M20 with OPC Cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregate @ 0.69 Cum and fine aggregate @ 0.46 cum with Super Plasticizer @ 3lts Conforming to IS 9103-1999, as amended-2008 machine mixed concrete laid in layers not exceeding 15cms thick vibrated for RCC beams Columns, roof of all hgts in foundations plinths and Super structure ground floor level for roof slabs, staircase, lintels columns, including cost of all material, labour, Hire of machinery, Curing, complete as per specifications					
	Present qty as per E-Bill Page no 21 Cum 10.32.					
	qty upto 125%.	Cum	5.64	7515.22		Rs 42385 / Rs 42367
	qty above 125%.	Cum	4.68 / 3.63	7515.22		Rs 35154 / 27280.75

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498043

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Providing and laying in Position plain Cement Concrete of mix M10 with OPC @ 220kgs with 40mm and down size graded granite metal coarse aggregate @ 0.892 cum and fine aggregate @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cm thick well compacted in foundation and Plinths, Hire of Machinery, curing complete as per specifications						
Present qty as per E bill page no 22.						
qty upto 125%.	Cum	13.35		Rs 6158.14		Rs 82288.00 / 82272.75
qty above 125%.	Cum	5.64		Rs 6158.14		Rs 34717.00 / 34731.90

Scanned with CamScanner

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	
32	Providing TMT steel Reinforcement for RCC work including straightening cutting bending hooking placing in position lapping and/or welding wherever required, tying with binding wire and anchoring to the already members wherever complete as per drawings (laps hooks and wastage shall not be measured & paid) cost of material, labour tools & machinery complete as per specification						
	Present qty as per Ebill page no 23 to 27						
		Tonne	9.68		Rs 68403.42		Rs 662351 662141

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Measurement Book

No. B

498049

No. .....

of Work ..... From..... To.....

of Contractor of nature of Agency .....

of commencement of work .....

Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Providing and removing Centering & Shuttering, shuttering propping etc. and removal of form work for foundations, footings base of columns for mass concrete including cost of all material, labour complete as per specification.						
Present qty as per Ebill page no. 28						
Qty upto 125%				50.49	Rs 281.91	14233.00
Qty above 125%				26.49	Rs 281.91	7469.00

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	
34	Providing and removing Centering & Shuttering, Shuttering & Propping etc. and removal of form work for flat Surface such as suspended floors, roofs, landing, balconies and like thickness upto 200mm including cost of all material, labour complete as per specification Present qty as per E bill page no 29.		Sqm	88.07	Rs 468.63	Rs 41272.5	
35.	Providing and removing Centering & shuttering, Shuttering Propping etc for columns, pillars, piers, abutments, post and Shuttering square/rectangle/polygon in plan including cost						

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498059

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
of all material labour, complete as per specification Present qty as per E Bill page no 0-30						
Qty upto 125%.			Sqm 99.05		Rs 446.67	Rs 44243.00
Qty above 125%.			Sqm 21.25 25.09		Rs 446.67	Rs 9492.00 11207.00
Providing and removing Centering & shuttering, Shuttering & Propping etc. and removal of form work for side and soffit of beams, beam haunchings cantilever girders						

Scanned with CamScanner

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	
	Breastwaves and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification						
	Present qty as per E bill page no 31				Rs		
	Qty upto 125%	Sqm	220.93		312.42	Rs	69023
	Qty above 125%	Sqm	46.60		312.42	Rs	14555
	Qty above 125%	Sqm					
37	Providing and removing centering shuttering strutting properly for chajjas, corbels etc including edges including cost of all materials labour complete as per specification						
	Present qty as per E bill page no 32						
	Qty upto 125%	Sqm	6.90		Rs 329.51	Rs	2276
	Qty above 125%	Sqm	1.88		Rs 329.51	Rs	619.0

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Measurement Book

No. B 498051

No. .....
of Work ..... From..... To.....
of Contractor of nature of Agency .....
of commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Brick masonry a) Providing and constructing burnt brick masonry with approved quality of non modular bricks of standard size of class designation 50 in table moulded with cement mortar 1:6 masonry for basement and super structure including cost of material labour charges, scaffolding curing complete as per specifications						
Present qty as per E bill page no 33.						
	Sqm		62.80 54.54		Rs 8158.37	Rs 512367.00 444957.00
Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6 stone hammer dressed						

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Date 1	Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	In Courses not less than 20 cm high bond stones at 2 metre apart in each course including cost of material, labour carry complete as per specification.					
	Present qty as per E bill page no 34					
	qty upto 12% Com		46.64		Rs 4926.75	Rs 224[illegible]
	qty above 12% Com		41.14		Rs 4926.75	Rs 6[illegible]

40) Providing and constructing arches/kaman/batact/sage stone masonry in super structure with cement mortar 1:6 edges of stone chisselled/dressed in courses not less than 15 cm high bond stones at two metre apart in each course including cost of materials, labour charges

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Measurement Book

No. B 498052

No. .....
of Work ..... From ..... To .....
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of commencement of work .....

Full description, etc. of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Complete as per specification						
Present qty as per E bill page no 36						
qty upto 12% Com		15.90		Rs 6465.88		Rs. 101853.00
qty above 12% Com		1.43		Rs 6465.88		Rs 9168.00.

41) providing 18 mm thick cement plaster in layer coat with cement mortar 1:4, to brick masonry including rounding of corners, wherever required smoothing, providing

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	and removing Scaffolding including Cost of materials, labour Curing Complete as per Specification						
	Present qty as per E bill Page no 36		Sqm 90.27		Rs 220.99		Rs 20483
43)	Providing 20mm thick Cement plaster in single coat with Cement mortar 1:4 to stone masonry & Concrete Surface including rounding off Corners wherever required Smooth rendering, providing and removing Scaffolding, including Cost of material, labour, curing Complete as per specification						
	Present qty as per E bill Page no 37		Sqm 178.46	Rs 285.57		Rs 50962.02	

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No. B 498053

No. .....

of Work ..... From..... To.....

of Contractor of nature of Agency .....

commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Providing 12mm thick Cement plaster in single coat with Cement mortar 1:4 to ceiling including rounding of Corners wherever required Smooth rendering providing and removing Scaffolding including Cost of material, labour, Curing Complete as per specification						
Present qty as per E bill Page no 38.		Sqm 64.43		Rs 217.43		Rs. 13995.48.
EIRL						
Providing and applying water proofing to roof slabs						

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	Terraces landscapes area, podiums etc. using modified Polyurethane Cures (conforming to ASTM C836-84) to give tough elastomeric waterproof membrane on the surface. The surface shall be cleared free from dust and other portable before usage standards & methodology.					
	Present qty as per E bill page no 39	Sqm	69.84	Rs 854.28	Rs	5952 5965
	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting					

M. A. R. 57 (Rule 116)
Measurement Book

No. B 498054

No. .....
of Work ..... From..... To.....
of Contractor or nature of Agency .....
commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specification						
Present qty as per E bill page no 40		Cum	66.56	Rs 92.75		Rs 6173.00
					Grand total	9718612.00 9593969.32 GST 12% 114850.66

Ele 20/3/2020

CERTIFICATE

This is certified that the contractor done the work satisfactorily

10368820

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Date 1	Full description, etc. of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	(2) Certified that all the debris are removed from the work place					
	(3) There is no deposited lime to the Contractor					
	Executed work sketch in page no 498055					
	JE					

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

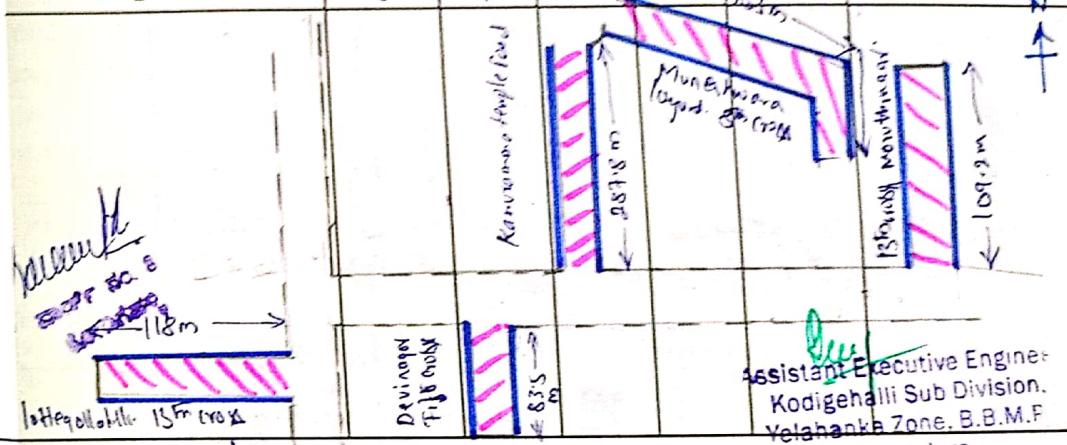
M. A. R. 57 (Rule 116)
Measurement Book

No. B 498055

Work: Improvement to roads from Doddi to Bolagilagal & Devinagal

Contractor of nature of Agency .....

Commencement of work .....

Full description, etc. of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

: Resurfacing bitumen Pavement Drain, Desilt & Slab R&R

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Improvement of roads & drains

Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	Point Home Road					
	130 m					
	Balaji layout 2nd main road					
	Balaji layout 3rd main road					
	99.4 mm					
	Balaji layout 4th main road					
	Balaji layout 8th main road					
	140 m					
	Tatanagar circle					

Resurfacing Bituminous Roads

Drain desilting R&R

Assistant Executive Engineer
Kodigehalli Sub Division
Chavanika Zone B.B.M.P.
Bangalore

M. A. R. 57 (Rule 116)
Measurement Book

No. B

No. .....
Work ..... From..... To.....
Contractor of nature of Agency .....
Commencement of work .....

Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
ಲೆಕ್ಕತೀರ್ಪಿಕೆ P 3111 - P 3410 ರದಿ			2nd & Final	22586123	Preceder	
ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 10368820/- ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ.			3rd & Final	10368820	TTS	
ಇದರಲ್ಲಿ ರೂ. 498835/- ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ			Total	32904943		
ಮಾಡಿಕೊಳ್ಳಬೇಕು ರೂ. 9869985/- ಗಳನ್ನು			IT	103689		
			CGST	92577		
FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ			SGST	92577		
			CGS	103689		
			CSF	10369		
			CR	95930		
			Adv	498835		
			Ch V	9869985		

ವಿಷಯ ನಿರ್ವಾಹಕರು — ಲೆಕ್ಕಾಧಿಕಾರಿಯವರು, ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ, ಬೃ.ಮ.ಪಾ. ಬೆಂಗಳೂರು — ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು, ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ, ಬೃ.ಬ.ಮ.ಪಾ. ಬೆಂಗಳೂರು

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